Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_

**Study Guide for Biology Quiz on Mon Dec 15th**

**Cell Cycle**

Be able to accurately draw a diagram of the cell cycle (Figure on 9.3, pg. 247)

Which is the longest part of a cell’s life: interphase, mitosis, or cytokinesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What are the three stages of interphase and what occurs in each?

What is cytokinesis?

**Mitosis & Cytokinesis** (Sec 9.2)

What are the purposes of mitosis & cytokinesis?

How many cells are created through mitosis & cytokinesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Are the cells identical to each other and the parent (original) cell? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Are the new cells diploid or haploid? (What does diploid mean?)

What would happen to the cell(s) if mitosis was not followed by cytokinesis?

Summarize what occurs in each stage of mitosis. Know the order of the stages. **If given a picture be able to identify the stage and describe what is occurring.**

Prophase:

Metaphase:

Anaphase:

Telophase:

**Cancer**

What is cancer?

What are the three main treatments for cancer?

What is chemotherapy?

Why do the side effects of chemotherapy often include hair loss, nausea, and fatigue? (Think about TedEd video)

What is the connection between cell cycle checkpoints and cancer?

What is a tumor?

Benign vs malignant tumor?